

Examiner's Copy

AN 1976-33344X [18] WPIDS
TI Die surface hardening - cyclic heating to hardening temp. and cooling improves uniformity of hardened layer.
DC M24
PA (ABPH-R) AS BELO PHYS TECH
CYC 1
PI SU 461956 A 19751010 (197618)* <--
PRAI SU 1974-1987857 19740115
AB SU 461956 A UPAB: 19930901
The heat treatment of punches and dies includes preliminary heating to 400-500 degrees C., induction heating to hardening temp., cooling followed by tempering. In order to achieve uniform hardening of the die surfaces, the initial heating involves cyclic heating to hardening temp. and cooling to 400-500 degrees C. These varying heating and cooling cycles may range from 2 to 10.